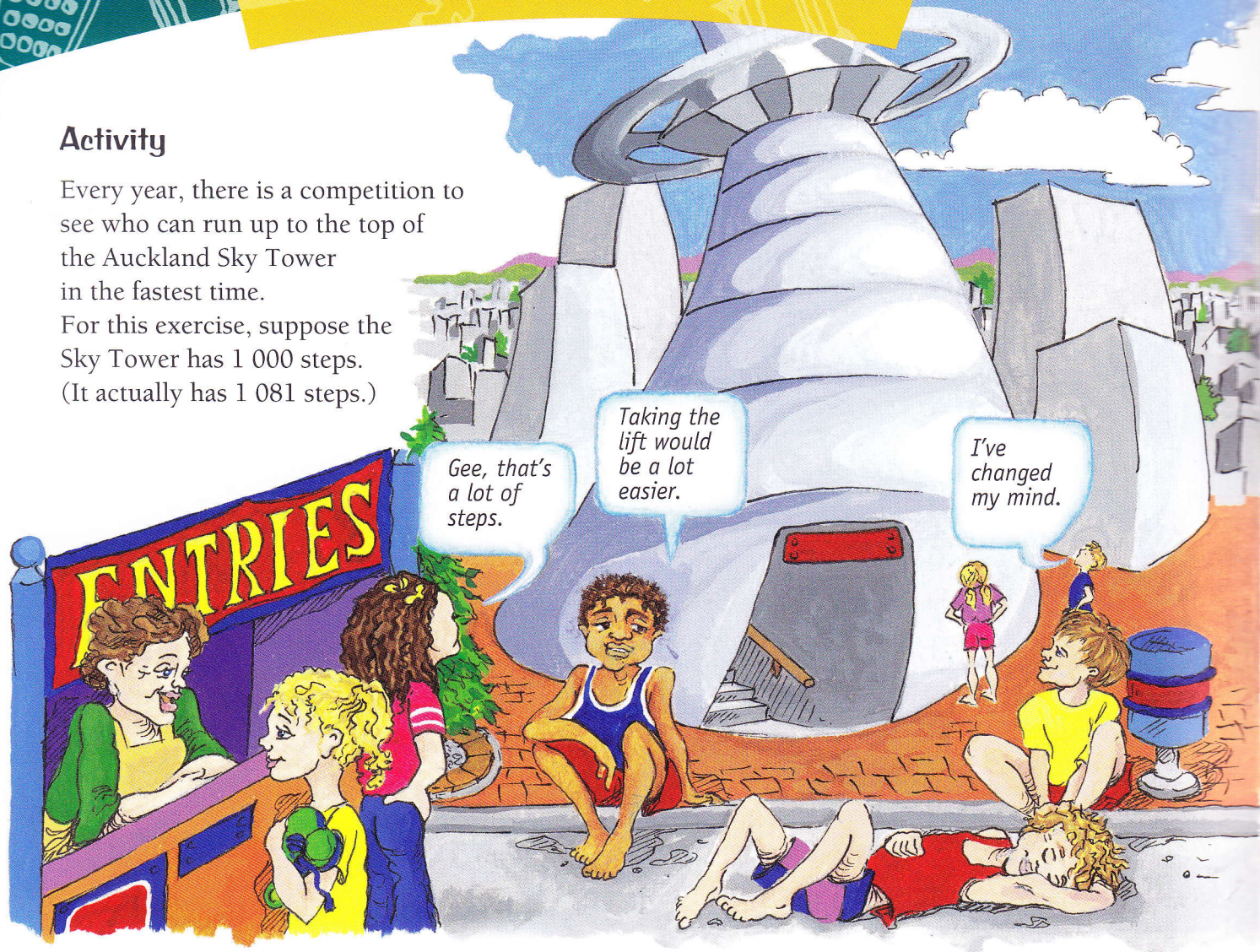


Racing to New Heights

Activity

Every year, there is a competition to see who can run up to the top of the Auckland Sky Tower in the fastest time.

For this exercise, suppose the Sky Tower has 1 000 steps.
(It actually has 1 081 steps.)



The race organiser wants you to put these signs on the wall of the stairwell.

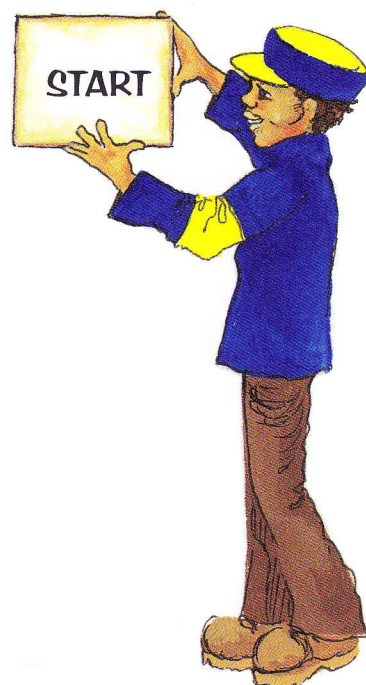
$\frac{1}{4}$ way up

$\frac{1}{2}$ way up

$\frac{3}{4}$ way up

$\frac{1}{3}$ way up

$\frac{2}{3}$ way up



1. Which step would you put each sign next to?
2. Why are the $\frac{1}{3}$ and $\frac{2}{3}$ signs difficult to place?
3. The organiser wants another sign halfway between the $\frac{1}{4}$ and the $\frac{1}{2}$ way up signs.
What fraction would you write on this sign?
4. After 5 minutes, Racey Rachel has run up 400 steps.
What fraction of the steps does she *still* have to climb?
5. At the same time, Speedy Sid is on step 625.
What fraction of the steps does he *still* have to climb?